

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Previously Presented) A display unit comprising at least one electro-wetting pixel, each electro-wetting pixel comprising:

- a closed cell;
- a polar liquid and a non-polar liquid, said liquids being immiscible, having different optical properties and being contained in said cell;
- a counter electrode; and
- at least one electrode pair, each electrode pair comprising an address electrode and a retain electrode, said address and retain electrodes being separated from said liquids by a surface that is lyophobic in relation to only one of said liquids; and

wherein said address and retain electrodes are arranged at respective electric potentials to control a spatial distribution of said liquids and thereby defining a multi-stable pixel state, and

wherein a current state is retained by applying a potential to the retain electrode in relation to the counter electrode and removing any potential from the address electrode in relation to the counter electrode.

2. (Previously Presented) The display unit according to claim 1, wherein said at least one electrode pair is arranged to provide one active multi-stable pixel state.

3. (Previously Presented) The display unit according to claim 1, further comprising a control unit which is operative to

apply potentials to the address and retain electrodes in relation to the counter electrode of each pixel; and to

set each pixel in either of at least one active multi-stable pixel state, by means of an address potential applied to said address and retain electrodes in relation to the counter electrode of the respective pixel, and a passive multi-stable pixel state, by means of removing any potential from the address and retain electrodes in relation to the counter electrode of the respective pixel; and to

retain a current multi-stable pixel state in each pixel by means of applying a retain potential to each retain electrode only of the respective pixel.

4. (Previously Presented) The display unit according to claim 1, wherein the display unit comprises a plurality of pixels and wherein the pixels are arranged along rows and columns in a matrix configuration.

5. (Previously Presented) The display unit according to claim 1, wherein each pixel further comprises at least one additional electrode pair, each pair comprising a retain electrode and an address electrode, wherein the address and retain electrodes in each pixel are consecutively arranged so that the address electrodes are spatially separated from each other by retain electrodes and vice versa, and wherein each electrode pair provides for a multi-stable pixel state.

6. (Previously Presented) The display unit according to claim 5, wherein the retain electrodes within each pixel is electrically

interconnected with each other.

7. (Previously Presented) The display unit according to claim 4, wherein every retain electrode within each pixel arranged along the same row is electrically interconnected with each other.

8. (Previously Presented) The display unit according to claim 4, wherein every counter electrode within each pixel arranged along the same row is electrically interconnected with each other.

9. (Previously Presented) The display unit according to claim 1, wherein said liquids in each pixel have different indices of refraction and define a lens and wherein each pixel state is controlled by said lens.

10. (Previously Presented) The display unit according to claim 9, further comprising a light guide, and wherein said electrodes are operative to move the lens between an ON state in which the lens is operative to focus light from the light guide towards an exit surface of the cell and an OFF state in which the lens is

operative to spread light from the light guide away from the exit surface.

11. (Previously Presented) The display unit according to claim 1, wherein said liquids have different light filtering properties and wherein the spatial distribution of the liquids provides a controllable light filter which defines said pixel state.

12. (Previously Presented) A method for bistable addressing of at least one electro-wetting pixel, each pixel comprising an address electrode, a retain electrode and a counter electrode,

in which an active state is set by applying a potential to the address electrode and the retain electrode in relation to the counter electrode; and

in which a passive state is set by removing any potential from the address electrode and from the retain electrode in relation to the counter electrode; the method further comprising the step of

retaining a current state by applying a potential to the retain electrode in relation to the counter electrode and removing any potential from the address electrode in relation to the counter

electrode.

13. (Previously Presented) The method for bistable addressing according to claim 12, wherein a plurality of pixels in a display device are addressed during picture frames, the method comprising the consecutive steps of:

setting each pixel to the active state;
setting a subset of said pixels to the passive state; and
retaining each pixel in the current state.

14. (Previously Presented) The method for bistable addressing according to claim 12, the pixels being arranged in a matrix having rows and columns and the pixels being addressed one row at a time.